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selected from the group consisting of:

- a) an amino acid sequence of SEQ ID NO:1,
- b) a naturally-occurring amino acid sequence having at least 90% sequence identity to the sequence of SEQ ID NO:1,
- c) a biologically-active fragment of the amino acid sequence of SEQ ID NO:1, wherein said biologically-active fragment has [HuMIM17] <u>translocase of inner mitochondrial membrane 17</u> activity, and
- d) an immunologically active fragment of the amino acid sequence of SEQ ID NO:1, wherein said immunologically active fragment generates an antibody that specifically binds to the polypeptide encoded by SEQ ID NO:1.
- 18. (Reiterated.) An isolated polypeptide of claim 17, having a sequence of SEQ ID NO:1.
 - 19. (Reiterated.) An isolated polynucleotide encoding a polypeptide of claim 17.
 - 20. (Reiterated.) An isolated polynucleotide encoding a polypeptide of claim 18.
- 21. (Reiterated.) An isolated polynucleotide of claim 20, having a sequence of SEQ ID NO:2.
- 22. (Reiterated.) An expression vector comprising a promoter sequence operably linked to a polynucleotide of claim 19.
 - 23. (Reiterated.) A host cell transformed with an expression vector of claim 22.
- 24. (Reiterated.) A method for producing a polypeptide of claim 17, the method comprising:
 - a) culturing a host cell under conditions suitable for expression of the polypeptide,

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wherein said host cell is transformed with an expression vector, and said expression vector comprises a promoter sequence operably linked to a polynucleotide encoding the polypeptide of claim 17, and

b) recovering the polypeptide so expressed.

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- 25. (Reiterated.) A method of claim 24, wherein the polypeptide has the sequence of SEQ ID NO:1.
- 26. (Reiterated.) An isolated polynucleotide comprising a sequence selected from the group consisting of:
 - a) a polynucleotide sequence of SEQ ID NO:2,
 - b) a naturally-occurring polynucleotide sequence having at least 90% sequence identity to the sequence of SEQ ID NO:2,
 - c) a polynucleotide sequence complementary to a),
 - d) a polynucleotide sequence complementary to b) and
 - e) a ribonucleotide equivalent of a)-d).
- 27. (Reiterated.) An isolated polynucleotide comprising at least 60 contiguous nucleic acids of claim 26.
- 28. (Reiterated.) A method for detecting a target polynucleotide in a sample, said target polynucleotide having a sequence of a polynucleotide of claim 26, the method comprising:
 - a) hybridizing the sample with a probe comprising at least 20 contiguous nucleotides comprising a sequence complementary to said target polynucleotide in the sample, and which probe specifically hybridizes to said target polynucleotide, under conditions whereby a hybridization complex is formed between said probe and said target polynucleotide or fragments thereof, and
 - b) detecting the presence or absence of said hybridization complex, and, optionally, if present, the amount thereof.

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- 29. (Reiterated.) A method of claim 28, wherein the probe comprises at least 60 contiguous nucleotides.
- 30. (Reiterated.) A method for detecting a target polynucleotide in a sample, said target polynucleotide having a sequence of a polynucleotide of claim 26, the method comprising:
 - a) amplifying said target polynucleotide or fragment thereof using polymerase chain reaction amplification, and
 - b) detecting the presence or absence of said amplified target polynucleotide or fragment thereof, and, optionally, if present, the amount thereof.
- 31. (Reiterated.) An isolated antibody which specifically binds to a polypeptide of claim 17.
- **32.** (**Twice Amended.**) A composition comprising [an effective amount of] a polypeptide of claim 17 and a pharmaceutically acceptable excipient.
- 33. (Once Amended.) A composition of claim 32, wherein the polypeptide has the sequence of SEQ ID NO:1.
- 34. (Reiterated.) A method for treating a disorder which is associated with decreased expression of the polypeptide of claim 17 comprising administering to a subject in need of such treatment an effective amount of the pharmaceutical composition comprising said polypeptide and a pharmaceutically acceptable excipient.
- 35. (Reiterated.) A purified agonist which specifically binds to and modulates the activity of the polypeptide of claim 17.
 - 36. (Reiterated.) A purified antagonist which specifically binds to and inhibits the

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activity of the polypeptide of claim 17.

- 37. (Reiterated.) A pharmaceutical composition comprising the antagonist of claim 36 in conjunction with a suitable pharmaceutical carrier.
- 38. (Reiterated.) A method for treating a disorder which is associated with increased expression of the polypeptide of claim 17 comprising administering to a subject in need of such treatment an effective amount of the pharmaceutical composition comprising an antagonist which specifically binds to and inhibits the activity of said polypeptide.
- 39. (Reiterated.) A method for screening a compound for effectiveness as an agonist of a polypeptide of claim 17, the method comprising:
 - a) exposing a sample comprising a polypeptide of claim 17 to a compound, and
 - b) detecting agonist activity in the sample.
- 40. (Reiterated.) A method for screening a compound for effectiveness as an antagonist of a polypeptide of claim 17, the method comprising:
 - a) exposing a sample comprising a polypeptide of claim 17 to a compound, and
 - b) detecting antagonist activity in the sample.
- 41. (Reiterated.) A method for screening a compound for effectiveness in altering expression of a target polynucleotide, wherein said target polynucleotide comprises a sequence of claim 20, the method comprising:
 - a) exposing a sample comprising the target polynucleotide to a compound, and
 - b) detecting altered expression of the target polynucleotide.
- 42. (Reiterated.) A method for identifying a specific antifungal agent, the method comprising:
 - a) combining at least one agent with a fungal TIM17,